

Product datasheet for **SC324277**

SLC43A2 (NM_152346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC43A2 (NM_152346) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC43A2
Synonyms:	LAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_152346.1
AGAAAAGGCGCCGGGCGGCCCCGACACACGCCGAGGAGCCGGTGGTGCAGAGCCGGAG
CCGGAGCCGGAGCCGCGCCGCGCCGCCACCATGGCGCCACCCTGGCCACTGCCCATCGGC
GCCGCTGGTGGATGGCCTGCACGGCCGTGCTGGAGAACCCTCTCTCTCGGCAGTCCTCC
TGGGCTGGGGCTCGCTGCTCATCATGCTCAAGTCAGAGGGCTTTTACTCTACCTGTGTA
CCGAGCCAGAGAATGTCACCAATGGCACAGTGGGCGGCACAGCAGAGCCGGGACAGAGG
AGGTGAGCTGGATGAACGGCTGGCTCAGCTGCCAGGCCAGGACGAGATGCTAAATTTGG
CCTTCACTGTGGGCTCCTTCTGCTCAGTGCCATCACCTGCCCTGGGTATCGTCATGG
ACAAGTATGGCCCGAGGAAGCTCAGGCTGCTGGGCAGCGCCTGCTTCGCGGTTTCCTGCT
TGCTGATTGCGTACGGAGCAAGTAAACCAACGCTCTCTCCGTGCTCATTTTCATCGCCC
TGGCTCTGAATGGCTTTGGTGGGATGTGTATGACCTTCACCTCATTAACTGCCCAACA
TGTTCCGGCGACCTTCGGTCCACGTTTATTGCCTTGATGATTGGGTCTACGCCTCCTCGG
CAGTCACCTTTCCAGGAATCAAGCTCATCTATGATGCTGGTGTCTCCTTCATCGTCGTC
TCGTGGTCTGGGCGGCTGCTCCGGGCTGGTTTTCTCAACTGCTTCTTAACTGGCCCC
TTGAGCCCTTCCCGGGCCGGAGGACATGGACTACTCGGTGAAGATCAAGTTCAGCTGGC
TGGGCTTTGACCACAAGATCACAGGAAGCAGTTCTACAAGCAGGTGACCACGGTGGGCC
GGCGCCTGAGTGTGGGCAGCTCCATGAGGAGTGCCAAGGAGCAGGTGGCGCTGCAGGAGG
GCCACAAGCTGTGCCTGTCCACCGTCCAGCTGGAGGTGAAGTGCCAGCCGGATGCCCGCAG
TGGCCCCCTCCTTATGCACAGCGTGTTTCAGCCCCATCCTGCTGCTCAGCCTGGTCACCA
TGTGCGTCACGCAGCTGGGCTCATCTTCTACATGGGGGCTATGAACAACATCCTCAAGT
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AGCTGCTGTGCCTGCTGACGGCCCCGTCATTGGCTACATCATGGACTGGAGGCTGAAGG
AGTGTGAAGACGCCTCCGAGGAGCCGAGGAGAAAGACGCCAACCAAGGCGAGAAGAAAA
AGAAGAAGCGGGACCGGCAGATCCAGAAGATCACTAATGCCATGCGGGCCTTCGCCTTCA
CCAACCTGCTGCTCGTGGGCTTTGGGGTGACCTGCCTCATTCCCAACCTGCCTCTCCAGA
TCCTCTCCTTCATCCTGCACACAATCGTGCGAGGATTCATCCACTCCGCTGTCGGGGGCC
TGTACGCTGCCGTACCCCTCCACCCAGTTCGGCAGCCTCACGGGACTGCAGTCTCTGA



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TCAGCGCGCTCTTCGCCCTTCTGCAGCAGCCGCTGTTTCTGGCCATGATGGGTCCTCTCC
AGGGAGACCCTCTGTGGGTGAACGTGGGGCTGCTCCTTCTCAGCCTGCTGGGCTTCTGCC
TCCCGCTCTACCTGATCTGCTACCGGCCAGCTGGAGCGGCAGCTGCAGCAGAGGCAGG
AGGATGACAACTCTTCTCAAATCAACGGCTCGTCCAACCAGGAGGCCTTCGTGTAAGT
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TCCCTCCCGGGCCCTGCCTCGGAGCTCTGTGGTGAAGGACGGGAGAGGGCCCGGACA
CGCGCGTTTTCTCCTGCCGAACGCAGGGGCTGCCCTGACTTTGCTCTGCCGCCCGGGG
GACCCGGGGCTGGGTCTCTGTGGTGCCTGCAGCAGGAGCCAGGAACGCCCGGCAGGCA
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CCTGCCTGCCACCTGCCCTCGGCTGCATGCCACAGCCGTACCTGCCTGAGGACAAAGG
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CCGCCGCCAGGGACCCCGTACATACACACAGCTGCTTTTGTGGAGTGGACGAAAGGCT
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CAGGCCTGCAGCTGGGCCAGTGCCCAGGAGCCATCCTGGCGTGGGGCCAGGAGCTGTCC
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CGGGGAGGCCCTCCGCTGGCCACCAACCCGCCACCTTACTGCCCCAGAAGTGT
GTCTTGGAGCTCTGGGCGTGTAGAGGGGTGAGTTGTGTTTGGATTTTAGTTATTT
TCTTTCAGTTTTATTAGACTTCTTTTTATAAAGCAATAATCCATTTCTCCGGGTA
AAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** Please inquire
- ACCN:** NM_152346
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [NM_152346.1](#), [NP_689559.1](#)
- RefSeq Size:** 3024 bp

RefSeq ORF: 1710 bp

Locus ID: 124935

UniProt ID: [Q8N370](#)

Cytogenetics: 17p13.3

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the L-amino acid transporter-3 or SLC43 family of transporters. The encoded protein mediates sodium-, chloride-, and pH-independent transport of L-isomers of neutral amino acids, including leucine, phenylalanine, valine and methionine. This protein may contribute to the transfer of amino acids across the placental membrane to the fetus. [provided by RefSeq, Mar 2016]
Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.